

AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A foldable wireless electrical device, comprising:
 - a first portion;
 - a second portion, including an antenna portion; and
 - a shaft, extended between two adjacent ends of the first portion and the second portion, for pivotally connecting the first portion and the second portion such that the first and second sections can be pivoted to a closed position and to an open position, and linkage with the first portion; the shaft forming at least one metal section having a metal mating portion, so that the metal section which electrically couples to the antenna portion when the first portion pivots to a predetermined and second portions are pivoted to the closed position with respect to the second portion, and said metal mating portion electrically decoupling from said antenna portion when the first and second portions are pivoted to the open position.
2. (Canceled)
3. (Currently Amended) The foldable wireless electrical device as claimed in claim 1, wherein the metal mating portion on the shaft forms a first metal section and the shaft further includes a second metal section spaced from the first metal section, and the first portion is pivotable with respect to the second portion between a closed position and an open position, so that wherein when the first portion is pivoted to and second portions are in the closed position, the antenna portion electrically couples to the first metal section, and when the first portion is

~~pivoted to and second portions are in the open position, the antenna portion electrically couples to the second metal section.~~

4. (Original) The foldable wireless electrical device as claimed in claim 1, wherein the first portion includes a first circuit board, the second portion includes a second circuit board and a base fixed to one end of the second circuit board, a top face of the base defines a recess for receiving the shaft and pivotally connected to two ends of the shaft, and one end of the second circuit board is fixed to the shaft to make the first circuit board pivotable with respect to the second circuit board.

5. (Currently Amended) The foldable wireless electrical device as claimed in claim 4, wherein the antenna portion is routed on a surface of the base and one end thereof extends to one end of the recess to form a first coupling portion, and the metal section mating portion extends along a length of the shaft, and one end thereof adjacent to the first coupling portion forms a second coupling portion, so as to make the first coupling portion move to a position facing to the second coupling portion for electrically coupling to the second coupling portion when the first portion is pivoted to the predetermined closed position.

6. (Currently Amended) The foldable wireless electrical device as claimed in claim 5, wherein when the first portion is pivoted to the predetermined closed position, a space exists between the first coupling portion and the second coupling portion, and forms a capacitive coupling to obtain an electrical coupling.

7. (Currently Amended) The foldable wireless electrical device as claimed in claim 5, wherein at least one projected point is respectively extended outward from at least one of the first coupling portion and the second coupling portion, so that when the first portion is pivoted to the predetermined closed position, the first coupling portion and the second coupling portion are electrically connected to each other by the projected point.

8. (Original) The foldable wireless electrical device as claimed in claim 1, wherein the foldable wireless electrical device is a foldable mobile phone.

9. (Currently Amended) A foldable wireless electrical device, comprising:

- a first portion, including a metal section;
- a second portion, including an antenna portion; and
- a shaft, extended between two adjacent ends of the first portion and the second portion, for pivotally connecting the first portion and the second portion such that the first and second sections can be pivoted to a closed position and to an open position, and linkage with the first portion; the shaft forming a second coupling portion, to electrically connect to the metal section, so that the metal section electrically couples to coupling with the antenna portion by the coupling portion when the first portion pivots to a predetermined and second portions are pivoted to the closed position with respect to the second portion and said metal section electrically decoupling with said antenna when the first and second portions are pivoted to the open position.

10. (Canceled)

11. (Currently Amended) The foldable wireless electrical device as claimed in ~~claim 10~~,
claim 9, wherein the first portion includes a first circuit board and the metal section is routed on
the first circuit board, the second portion includes a second circuit board and a base fixed to one
end of the second circuit board, the antenna portion is provided on the second circuit board, a top
face of the base defines a recess for receiving the shaft and pivotally connected to two ends of the
shaft, and one end of the first circuit board is fixed to the shaft to make the first circuit board be
pivotable with respect to the second circuit board.

12. (Original) The foldable wireless electrical device as claimed in claim 11, wherein one
end of the recess of the base forms a first coupling portion to electrically couple to the antenna
portion, and one end of the shaft faced to the first coupling portion forms a second coupling
portion, so that when the first circuit board pivots to the closed position, the first coupling
portion and the second coupling portion are faced to each other and obtain an electrical coupling.

13. (Original) The foldable wireless electrical device as claimed in claim 12, wherein
when the first circuit board is pivoted to the closed position, a space exists between the first
coupling portion and the second coupling portion, and forms a capacitive coupling to obtain an
electrically coupling.

14. (Original) The foldable wireless electrical device as claimed in claim 12, wherein at
least one projected point is respectively extended outward from at least one of the first coupling

portion and the second coupling portion, so that when the first circuit board is pivoted to the closed position, the first coupling portion and the second coupling portion are electrically connected to each other by the projected point.

15. (Original) The foldable wireless electrical device as claimed in claim 11, wherein one end of the recess of the base forms a first coupling portion to electrically connect to the antenna portion, and the first circuit board forms a first metal section and a second metal section spaced from the first metal section, and the shaft forms a second coupling portion electrically connected to the first metal section and a third coupling portion spaced apart from the second coupling portion and electrically connected to the second metal section, so that when the first circuit board is pivoted to the open position, the first coupling portion and the second coupling portion are faced to each other and produce an electrical coupling, and when the first circuit board is pivoted to the closed position, the first coupling portion and the third coupling portion are faced to each other and produce an electrical coupling.

16. (Original) The foldable wireless electrical device as claimed in claim 15, wherein a space exists between the first coupling portion and the second coupling portion and the third coupling portion, and forms a capacitive coupling to obtain an electrical coupling.

17. (Original) The foldable wireless electrical device as claimed in claim 15, wherein at least one projected point is extended outward from at least one of the first coupling portion, the second coupling portion, and the third coupling portion, respectively, so that the first coupling

portion, the second coupling portion and the third coupling portion are electrically connected to one other by the projected point.

18. (Original) The foldable wireless electrical device as claimed in claim 9, wherein the foldable wireless electrical device is a foldable mobile phone.

Claims 19-36. (Canceled)

37. (Original) The foldable wireless electrical device as claimed in claim 1, wherein the antenna portion is a meander antenna portion positioned proximate said shaft.

38. (New) The foldable wireless electrical device as claimed in claim 9, wherein the antenna portion is a meander antenna portion positioned proximate said shaft.